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PROJECT NUMBER: PROJECT NAME: QUALITY LEVEL: □ Q □ RS □ CC						
	DG / AREA:	PIPING SYSTEM:			ASME Y	es 🗆 No
	SCRIPTION:	THE OTOTAL			AOME -	
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	ERENGE DOCUMENT NOMBER.		KEV NOIV	IDEIX.	KLINAKKO.	
	ITEM:		INSP. TYPE	N/A	FE/DATE	QCE/DATE
PII	PING					
1.	Fit-up is acceptable; vertical lines are lines are level, except where slope is i drawings					
2.	Slopes are as indicated on P & ID's ar	nd isometrics drawings				
3.	Pipe size, schedule and type of materi	ial is correct				
4.	Flange ratings are correct					
5.	5. Routing and tie-ins of lines are in the correct location					
6.	Correct type reducers (eccentric or concentric and correct schedule) are located and orientated per specification, standards and design installation drawing					
7. Branch lines are located correctly on headers						
8.	Reinforcing pads with weep holes, tees, sockolets, weldolets, or welding saddles are used as specified for branch connections.					
9.	Temporary supports provided, if require	red.				
10.	Vents are installed at high points and	drains at low points				
11.	Vents and Drains installed/welded after hydro as required by specifications					
12.	No carbon steel contact with stainless steel components. Note: Check specification and vendor information as carbon steel bolting materials maybe be specified in stainless steel piping systems					
13.	Welding and NDE is in compliance with codes and project specification					
14.	Pipe coating is protected from damage during all handling, transportation or installation operation.					
15.	Piping is free of tape, wire, slings, chainfalls and other installation tools and materials					
16.	Verify internal pipe cleanliness and ha installation process	nd clean pipe during				
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ITEM:		INSP.	N/A	FE/DATE	QCE/DATE
VALVEO		TYPE			
VALVES					
Check, globe and control valves are ins direction as indicated on P&ID	stalled with flow in correct				
number, (if used) description and trim.	Manufacturer's nametag description agrees with stock code number, (if used) description and trim. (Do not rely on warehouse tag). Check casting stamp also				
	Valves are accessible and operable and chain wheels or extensions are installed and operable, as required				
Control Valve Positioners and accessories are accessible					
Rising stem valves are free of obstructions and protectors are installed as required					
 Special packings are installed as required and if repacking is required, a tagging or color code system is used to identify repacked valves 					
Drains or flushing connections to valve bodies are installed, accessible and operable, as required					
8. By-passes around valves are installed a	and operable, as required				
9. Valves are internally clean					
10. Temporary Supports provided, if require	ed				
11. Valves have been tested and calibrated specified	d prior to installation, if				
Valve stems are not lower than horizontal unless specifically approved. (Especially stem locations for cryogenic valves)					
13. Lubrication fittings on valves are installed as required					
14. Valve lubrication sticks have been installed if required					
Verify valve (open or closed) prior to welding activities per vendor recommendations.					
Valves with special bolting requirement holes) are installed as required. These identified on the design drawings and B					
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BOLTS AND STUDS					
1. Bolts and studs are not interchanged					
2. Bolting is appropriate length, diameter	, and material				
Verify the thread pitch for 1 inch (25mi materials	m) and larger bolting				
Thread lubricant is used if required. Take extra caution with stainless steel materials					
Verify types of bolts to be used on high pressure, high temperature flanges or on cryogenic lines. Verification shall include a spot check with a magnet for non-magnetic materials					
 All bolts or studs are installed and tight or torqued/tensioned, as required. Studs have minimum one thread past nuts and have equal projection beyond nuts per project specifications (normal is 1-3 exposed threads), unless otherwise specified by project specification 					
GASKETS					
Gaskets are installed and are the corresize and rating	ect type, style, material,				
Specification changes at equipment blochecked for correct gaskets	ock valves are carefully				
3. All gaskets on blind flanges are check	ed and verified				
Temporary gaskets may be used at temporary blinds, then line specification gaskets are installed after pulling temporary blinds. Punch list shall specify the right gasket. High pressure ring gaskets shall be verified oval or hex material as installed					
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SMALL PIPING, INCLUDING SMALL I OTHER EQUIPMENT (Pack					
Screwed and socket weld fittings of the material are used (watch out for maller fittings)					
Specified pipe thread sealant is used temperature capability	vith adequate				
The gap in socket weld fittings shall be checked as work progresses					
Horizontal spans shall be carefully considered in field routing of small pipe in order to eliminate the sagging of the pipe					
5. If a vendor supplies the trim material, ensure the material used meets design and job specifications or there has been an agreed substitution approved by design engineering					
 Pump trim drawings and vendor prints are checked for location and routing of trim piping. Pumps are usually tagged at each connection, but care shall be taken to see that they are connected properly. Confirm pump drip pans drain are piped to drains as required 					
Cooling water systems, either individual checked carefully for arrangements of					
Plugs furnished by vendors are checked for compliance with specifications. All equipment openings are checked for requirement of a plug or blind flange. Watch for straight machine threaded plugs instead of tapered pipe plugs					
Check pickling requirements					
Monitor welding and NDE per specification					
11. Check stress relieving requirements					
Check for obstruction preventing access to components for operation and maintenance					
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PIPE SUPPO	RTS AND EXPANSION JOI	NTS				
confirm	upported properly. Drawings that major supports are installed d supported.					
	learances for pipe expansion erly positioned in relation to son.					
	ated lines check shoes for col pecifications call for stitch wel					
Alloy lines must be checked carefully for material compatibility. Any additional welded supports or temporary welds may require stress relieving. Clamp types may be used if specifications permit.						
 Large diameter lines must be checked carefully. Gas lines, with supports not designed for hydro-test, may require temporary supports, or waivers may be obtained for air test. 						
Lines at pumps and other equipment shall be carefully checked for undue stresses on equipment flanges. Pipe supports are straight and plumb.						
7. Lines sh	nall be checked for allowance	es for proper expansion.				
Bellows type expansion joints shall be checked for test and service pressure, also check that bellows are installed with tie bars correctly oriented and flow is in the correct direction. Shipping restraints shall remain in place until commissioning.						
9. All lines and guid	shall be checked for the needles.	ed of additional supports				
 Cold spring is installed as required by design engineering (shall be checked, witnessed, and documented during installation). 						
11. Slide plates shall be checked for proper installation.						
12. Shoes or supports are not tack welded where they shall be able to slide.						
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SE	AL WELDING					
1.	Seal welding is complete as required					
2.	Exposed threads are covered by seal	weld				
3.	No pipe thread sealant or tape is to be be seal welded	used in screwed joints to				
4.	Specifications are checked for seal we (Some require it and some do not allow					
INS	ULATED LINES					
1.	Long vertical lines may require insulation support clips at specific intervals					
 Sufficient clearance exists for insulation on steam and hot lines (from conduit, structural steel, platforms and other lines). Check that guides will not foul cladding in operating position 						
Clearances exist for insulation on equipment and lines						
Line mounted instrument support brackets are installed before line is released for insulation						
ALI	OY LINES					
1.	Stress relieving is complete, witnessed documentation has been distributed	d as required and				
2.						
 Valves and gaskets are checked carefully. Stock code description is checked against valve nameplate data and, if necessary to determine valve is correct, against manufacturers catalog number. 						
Never weld galvanized or zinc rich painted supports to stainless steel lines						
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ORIFICE RUNS					
	Orifice runs have the specified straight length of pipe (free of welds) both upstream and downstream of orifice flanges				
	Orifice taps are oriented in the correct direction. (Most specifications specify vertical for gas and horizontal for liquid)				
Jackscrews are installed as required a with spectacle blinds	Jackscrews are installed as required at orifice flanges or flanges with spectacle blinds				
	Nipples and plugs installed on orifice flanges are as specified. (Some specifications require stainless, XS or XXS nipples)				
MISCELLANEOUS ITEMS					
Lines meet specifications for headroom in walk areas and overhead clearance in drive areas					
 Relief valves, backflow preventers, and pressure gauges have been checked in calibration shop if required by specifications. Ensure relief valves are calibrated in line with start up schedule and within the correct number days of start up as stated in the specification. 					
Start up or permanent suction screens are installed in pump and compressor suction lines as required. Check for correct direction of installation					
Spectacle blinds, blinds, and spacers and are correct thickness	are installed as required				
Piping specifications are carried to the instrument details take over. Usually to per piping specifications					
Drip legs with traps and drains are prosteam lines.	vided at low points in				
7. Mud legs or drip legs have clearance to line pipe	for expansion of the main				
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MISCELLANEOUS ITEMS (Continued)							
8. Clearance exists for removal of equipment such as deep well type pumps, motors, tube bundles, basket strainers, thermowells, etc., and that spare equipment can be removed without a total plant shut down							
Instruments, i.e. level glass, pressure and temperature gauges, thermowells, etc. are accessible for operation and maintenance							
COMMENTS:							
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